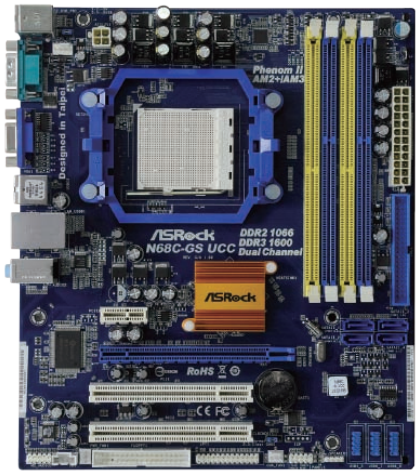
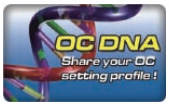
N68C-GS UCC

NVIDIA® GeForce 7025 / nForce 630a Chipset

ASRock
www.asrock.com





Product Brief

- Supports ASRock UCC - Unlock CPU Core feature
- Hyper Transport 2000 MT/s
- Supports Dual Channel DDR3 1600 / DDR2 1066
- Integrated NVIDIA® GeForce 7025 graphics, DX9.0 VGA, Pixel Shader 3.0, Max. shared memory 256MB
- Gigabit LAN 10/100/1000 Mb/s
- Supports ASRock Instant Boot, Instant Flash, OC DNA ASRock OC Tuner (Up to 150% CPU frequency increase)
- Supports Intelligent Energy Saver (Up to 15% CPU Power Saving)
- Free Software : CyberLink DVD Suite - OEM and Trial; Creative Sound Blaster X-Fi MB - Trial

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

Detail Specification

Platform	- Micro ATX Form Factor: 9.6-in x 8.2-in, 24.4 cm x 20.8 cm
CPU	- Support for Socket AM2+ / AM2 processors: AMD Phenom™ FX / Phenom / Athlon 64 FX / Athlon 64 X2 Dual-Core / Athlon X2 Dual-Core / Athlon 64 / Sempron processor - Support for AM3 processors: AMD Phenom™ II X6 / X4 / X3 / X2 / Athlon II X4 / X3 / X2 / Sempron processors - Six-Core CPU Ready - Supports UCC feature (Unlock CPU Core) - Supports AMD's Cool 'n' Quiet Technology - FSB 1000 MHz (2.0 GT/s) - Supports Untied Overclocking Technology - Supports Hyper-Transport Technology
Chipset	- NVIDIA® GeForce 7025 / nForce 630a
Memory	- Dual Channel DDR3/DDR2 memory technology - 2 x DDR3 DIMM slots - Supports DDR3 1600/1333/1066/800 non-ECC, un-buffered memory - Max. capacity of system memory: 8GB - 2 x DDR2 DIMM slots - Supports DDR2 1066/800/667/533 non-ECC, un-buffered memory - Max. capacity of system memory: 8GB
Expansion Slot	- 1 x PCI Express x16 slot - 1 x PCI Express x1 slot - 2 x PCI slots
Graphics	- Integrated NVIDIA® GeForce 7025 graphics - DX9.0 VGA, Pixel Shader 3.0 - Max. shared memory 256MB - Supports D-Sub with max. resolution up to 1920x1440 @ 60Hz
Audio	- 5.1 CH HD Audio (VIA® VT1705 Audio Codec)
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Realtek RTL8211CL - Supports Wake-On-LAN
Rear Panel I/O	I/O Panel - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x Serial Port: COM1 - 1 x VGA Port - 4 x Ready-to-Use USB 2.0 Ports - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Line in / Front Speaker / Microphone
Connector	- 4 x Serial ATAII 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 0+1, RAID 5 and JBOD), NCQ and "Hot Plug" functions - 1 x ATA133 IDE connector (supports 2 x IDE devices) - 1 x Floppy connector - 1 x Print Port header - CPU/Chassis/Power FAN connector - 24 pin ATX power connector - 4 pin 12V power connector - CD in header - Front panel audio connector - 3 x USB 2.0 headers (support 6 USB 2.0 ports)
BIOS Feature	- 8Mb AMI Legal BIOS - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - CPU, VCCM, NB Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), ASRock Software Suite (CyberLink DVD Suite - OEM and Trial ; Creative Sound Blaster X-Fi MB - Trial)

Unique Feature	- ASRock OC Tuner
	- Intelligent Energy Saver
	- Instant Boot
	- ASRock Instant Flash
	- ASRock OC DNA
	- Hybrid Booster:
	  - CPU Frequency Stepless Control
	  - ASRock U-COP
	  - Boot Failure Guard (B.F.G.)
	  - ASRock AM2 Boost: ASRock Patented Technology to boost memory performance up to 12.5%

Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU Quiet Fan - Voltage Monitoring: +12V, +5V, +3.3V, Vcore
OS	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit compliant
Certifications	- FCC, CE, WHQL
Accessories	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA data cables (optional)

N68C-GS UCC

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ASRock
www.asrock.com

Unlock CPU potential up to 6 Cores

100% CPU Performance Boost!

AMD CPU Core X2/X3 ▶▶▶ X4

AMD CPU Core X4 ▶▶▶ X6

With ASRock UCC , one simple click in BIOS can unlock CPU core to enjoy an instant performance boost.

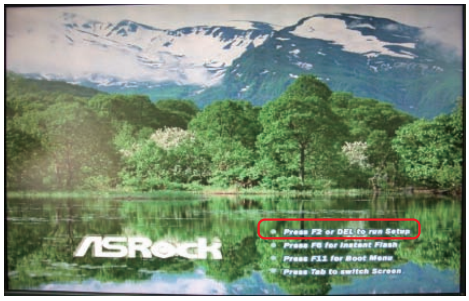
ASRock UCC

(Unlock CPU Core)

World's First NVIDIA Chipset Motherboard
Supports Unlock CPU Core

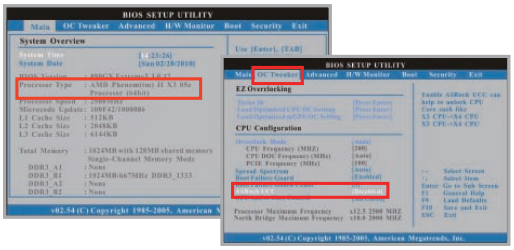
Step 1

Press “F2 or DEL” to enter the BIOS.



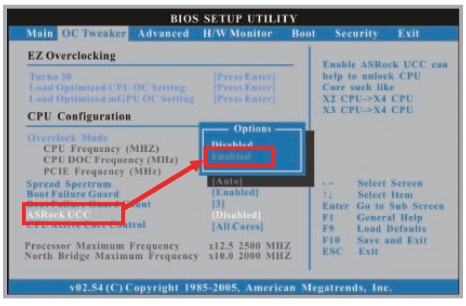
Step 2

Choose the “OC Tweaker” page and “ASRock UCC” option!



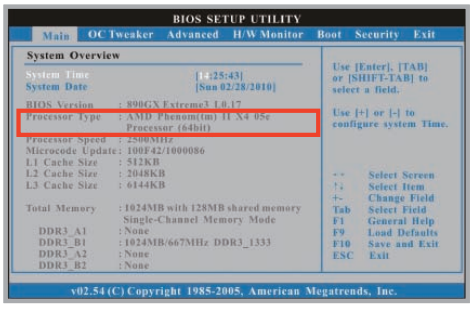
Step 3

- “ASRock UCC” set to Enabled.
- Press “F10” to save change and exit.


BIOS SETUP UTILITY
Main OC Tweaker Advanced H/W Monitor Boot Security Exit
EZ Overclocking
CPU Configuration
Options
Disabled
Enabled
Enable ASRock UCC can help to unlock CPU Core such like X2 CPU->X4 CPU X3 CPU->X4 CPU
v02.54 (C) Copyright 1985-2005, American Megatrends, Inc.

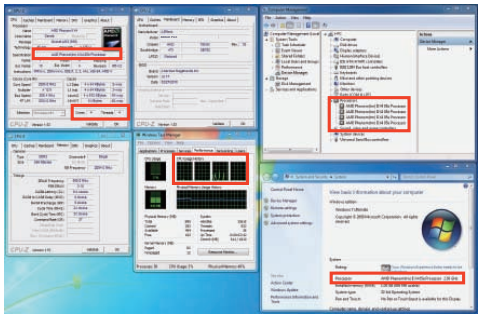
Step 4

- Press “F2 or DEL” to enter the BIOS.
- Processor Type unlock to “AMD Phenom II X4 05e” under “Main” page.


BIOS SETUP UTILITY
Main OC Tweaker Advanced H/W Monitor Boot Security Exit
System Overview
Processor Type : AMD Phenom(tm) II X4 05e Processor (64bit)
v02.54 (C) Copyright 1985-2005, American Megatrends, Inc.

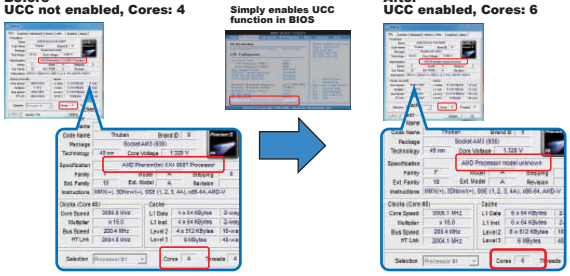
Step 5

CPU Information Under OS



Step 6

Before and After UCC



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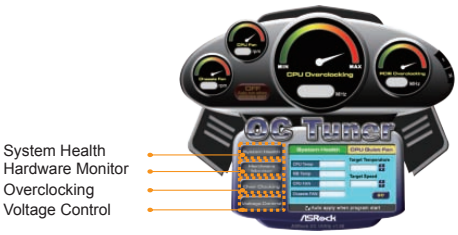
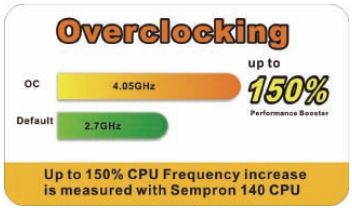
ASRock OC Tuner:

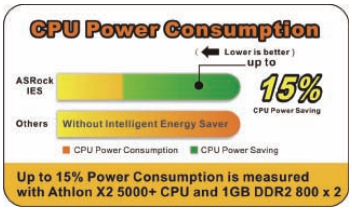
ASRock OC Tuner is a user-friendly and untied tool which allows you to guard your system by hardware monitor function and overclock your hardware devices to get the best system performance





Energy Saving :

Supports ASRock Intelligent Energy Saver (I.E.S)

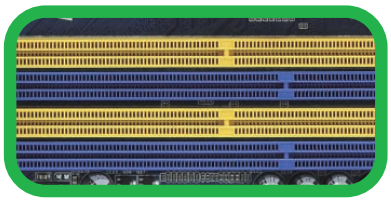


CPU Power saving up to **15%**

DDR2 / DDR3

Combo Design

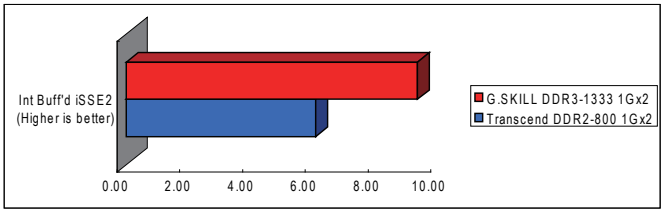
DDR2 1066 / DDR3 1600



DDR2 vs DDR3 Memory Performance Comparison

Model	N68C-GS UCC	
CPU	Athlon II X4 630	
RAM	**Transcend DDR2-800 1Gx2**	**G.SKILL DDR3-1333 1Gx2**
OS	Windows 7	
HDD	WD 250G	

Sandra 2009 Memory bandwidth	Transcend DDR2-800 1Gx2	G.SKILL DDR3-1333 1Gx2
Int Buff'd iSSE2 (Higher is better)	8.41 GB/S	**9.29 GB/s**
Float Buff'd iSSE2 (Higher is better)	8.41 GB/s	**9.3 GB/s**



With DDR3, memory bandwidth boost up more than 10.5%

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ASRock www.asrock.com

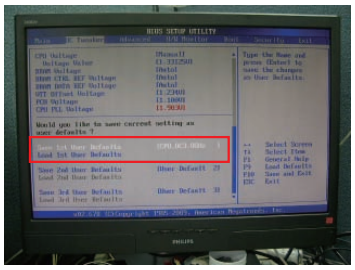
OC DNA

Save your OC settings as a profile and share with friends. Try OC DNA now!

OC DNA Instruction

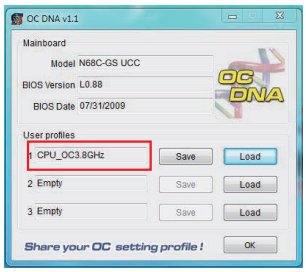
Step 1

Save your BIOS OC settings as User Default in BIOS OC Tweaker menu. (For example: we name this User Default setting as “CPU_OC3.8GHz”)



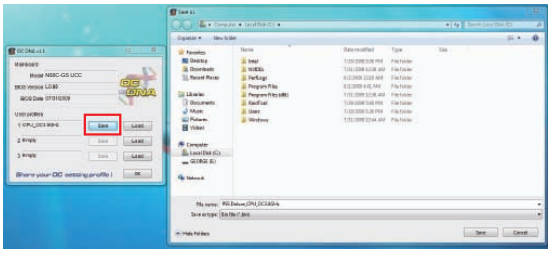
Step 2

Execute ASRock OC DNA under OS, you will find “CPU_OC3.8GHz” as User Profile 1.



Step 3

Press “Save” button to save the “CPU_OC3.8GHz” OC settings as a profile.

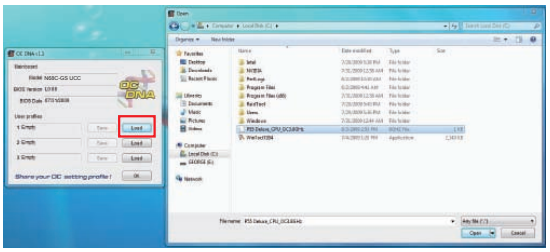


Step 4

Send the “CPU_OC3.8GHz” profile to other friends.

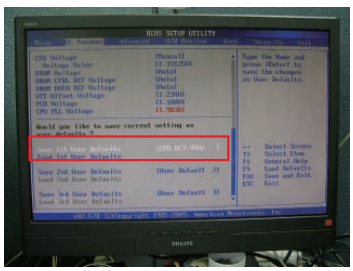
Step 5

When the friend receives your “CPU_OC3.8GHz” profile, he can press “Load” to load the “CPU_OC3.8GHz” profile in OC DNA.



Step 6

After that, the friend can enter into BIOS OC Tweaker menu to load the “CPU_OC3.8GHz” profile as his BIOS OC settings.



Now, you have successfully share your OC setting profile with your friends.

*The OC DNA works only when users use the same motherboard and BIOS version.

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ASRock
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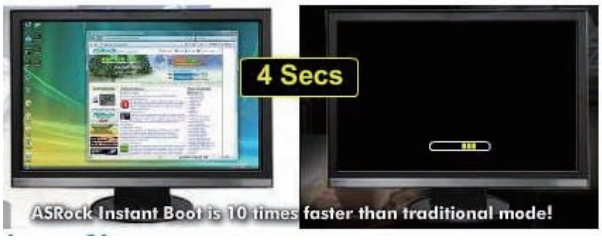
ASRock Instant Boot

ASRock Instant Boot is a new feature invented exclusively by ASRock. It can boot up system in an amazing speed, which is 10 times faster than traditional boot up. For home users or office PC users, ASRock Instant Boot can also guarantee a clean Windows OS, and consumed less power! For details:
http://www.asrock.com/feature/InstantBoot/index.asp

* This function is applicable ONLY to single user that does not secure ID and Password to their systems.
* The boot up time depends on the hardware configuration.

10 Times Faster, Only 4 Secs to Boot Up to Windows!

ASRock YouTube
http://tw.youtube.com/watch?v=BucljXZVxXo



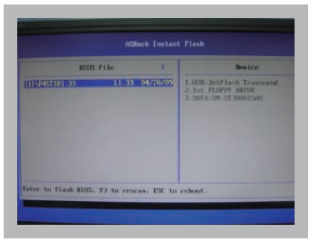
ASRock Instant Flash

ASRock Instant Flash is an exclusive and the most user-friendly BIOS flash utility developed by ASRock. It is embedded in Flash ROM which is used to update the system BIOS without having to enter operating systems like MS-DOS or Windows.

Instant BIOS Flash
Instant Flash BIOS Utility

Features

Once executing ASRock Instant Flash, the utility will automatically detect all devices such as USB, hard disk or even floppy drive to find the exact BIOS for your system. Instead of giving you all BIOS in your devices, the Instant Flash just list BIOS versions that apply to your motherboard model only. For example, if you have many different BIOS of different motherboards saved in your devices, but you just need to flash your P45 motherboard, the Instant Flash will just list the P45 BIOS versions for you. This unique function allows you to easily select the suitable BIOS version instead of browsing through all data.



Instant Flash just list BIOS versions that apply to your motherboard model.

Simple!

Click and start Flashing!

Quick!

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ASRock
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FREE Bundle
ASRock Software Suite
CyberLink Power2Go 6.1 LE OEM
CyberLink MediaShow 4.1 SE OEM
CyberLink PowerDVD 8.0 DTS Trial
CyberLink PowerDirector 8.0 Trial
CyberLink PowerBackup 2.5 Trial
Creative Sound Blaster X-Fi MB Trial

CyberLink

X-Fi XTREME FIDELITY

EAX ADVANCED HD 4.0

CyberLink Power2Go 6.1 LE OEM

Power2Go 6 lets you burn and backup videos, photos, music and data onto Blu-ray Discs and DVDs.

CyberLink MediaShow 4.1 SE OEM

Photo and video management software MediaShow edits videos and photos instantly, creates slideshow, and allows publishing directly to YouTube and Flickr.

CyberLink PowerDVD 8.0 DTS Trial

World-renowned PowerDVD 8 DTS delivers outstanding DVD movie playback quality on your PC.

CyberLink PowerDirector 8.0 Trial

PowerDirector - Video Editing software – edits high-definition videos including AVCHD, allows output to PSP iPod and Blu-ray Disc.

CyberLink PowerBackup 2.5 Trial

PowerBackup backups valuable data on your PC.

Creative Sound Blaster X-Fi MB Trial

The Sound Blaster X-Fi MB solution provides premium audio quality, effects and features for PC systems equipped with onboard audio.
For gamers, the EAX® ADVANCED HD 4.0, with its state-of-the-art Multi-Environment rendering and reverb modelling, delivers a much more realistic and immersive 3D gaming experience than your motherboard audio ever will.